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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TECH CENTER 1600/290

Attorney Docket 024754/0114

*Handwritten:* #27/H  
11/2/01

In re patent application

Dong et al.

Serial No. 09/252,828

Group Art Unit: 1641

Filed: February 19, 1999

Examiner: L. Cook

For: RECOMBINANT BIOLOGICALLY ACTIVE HUMAN ZONA PELLUCIDA  
PROTEIN 3(Hzp3) TO TEST MALE FERTILITY

**AMENDMENT AND RESPONSE TO RESTRICTION REQUIREMENT**

Commissioner of Patents  
Washington, D.C. 20231

Sir:

In response to the Office Action dated August 28, 2001, please amend the application as follows:

**IN THE CLAIMS:**

Substitute for claims 44-47 the following amended claims. The changes made to the amended claims are explicitly shown in the attached "Marked-Up Version of the Amended Claims."

44. (Twice Amended) A purified glycopolypeptide of 65kd to 100kd that can bind human spermatozoa at a glycopolypeptide concentration below 1 µg/ml and induce an acrosome reaction within one hour upon binding, wherein said glycopolypeptide comprises an amino acid sequence that is more than 54% homologous to the following sequence SEQ ID NO 2:

SerTrpPheProValGlnGlyProAlaAspIleCysGlnCysCysAsnLysGlyA  
spCysGlyThrProSerHisSerArgArgGlnProHisValMetSerGlnTrpSer  
ArgSerValSer.